Bruhat Bangalore Mahanagara Palike

Excecutive Engineer Project Division Yelahanaka

Name of Work: Modified Estimation for Improvements to roads and drains at Balaji Layout,Krishnanagara, Poojamahalakshmilayout, Chamundi Layout and Surrounding rea in Ward No.05 (Jakkur) Byatarayanapura Sub division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	**Removing and refixing** stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33, KPWD SR 2018-19)								
	Chamundi Layout								
	1st Cross Road	2	8.90	1.65		29.37			
	Main Rd	2	97.80	1.65		322.74			
	3rd Cross Road	2	19.90	1.65		65.67			
	3rd Cross Road A	1	11.40	1.65		18.81			
	4th Cross Road	1	16.90	1.65		27.89			
	4th Cross Road A	1	16.20	1.65		26.73			
	5th Cross Road	2	19.40	1.65		64.02			
	5th Cross Road A	2	11.80	1.65		38.94			
	6th Cross Road	2	17.30	1.65		57.09			
	7th Cross Road A	2	9.90	1.65		32.67			
	8th Cross Road	2	24.40	1.65		80.52			
	Poojamahalakshmi Layout								
	2nd Main Road	2	98.60	1.65		325.38			
	1st Cross Road	2	16.80	1.65		55.44			
	2nd Cross Road A	2	29.60	1.65		97.68			
	2nd Cross Road	2	26.20	1.65		86.46			
	3rd Cross Road	2	23.10	1.65		76.23			
	3rd Cross Road A	2	22.40	1.65		73.92			
	4th Cross Road	2	22.10	1.65		72.93			
	4th Cross Road A	2	18.20	1.65		60.06			
	5th Cross Road	2	22.60	1.65		74.58			
	5th Cross Road A	2	23.00	1.65		75.90			
	6th Cross Road	2	28.20	1.65		93.06			
	6th Cross Road A	2	16.70	1.65		55.11			
	7th Cross Road	2	21.40	1.65		70.62			
	8th Cross Road A	2	15.40	1.65		50.82			
	8th Cross Road	2	18.20	1.65		60.06			
	9th Cross Road A	2	23.90	1.65		78.87			
	9th Cross Road	2	21.60	1.65		71.28			
	10th Cross Road	2	22.80	1.65		75.24			
	10th Cross Road A	2	16.20	1.65		53.46			
	11th Cross Road A	2	14.70	1.65		48.51			
	11th Cross Road	2	26.10	1.65		86.13			
	1st Main Road	2	97.10	1.65		320.43			
	Balaji Layout								
	Balaji Layout Main Road	2	73.60	1.65		242.88			
	Cross Road 01	2	42.50	1.65		140.25			
	Cross Road 02	2	43.50	1.65		143.55			
	Cross Road 03	2	35.10	1.65		115.83			
	2nd Cross Road	2	78.50	1.65		259.05			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	3rd Cross Road								
	4th Cross Road	2	70.80	1.65		233.64			
	5th Cross Road	2	82.50	1.65		272.25			
	6th Cross Road	2	31.40	1.65		103.62			
		2	48.40	1.65		159.72			
						4497.41	Sqm	116.28	522958.00
2	KSRBB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1,KPWD SR 2018-19) 8km lead= 57+2.0x1.28x8 =77.48								
	Desilt								
	Chamundi Layout			Avg	Avg				
	1st Cross Road	2	47.60	0.52	0.45	22.28			
	Main Rd	2	250.25	0.52	0.45	117.12			
	3rd Cross Road	2	47.90	0.52	0.45	22.42			
	3rd Cross Road A	2	36.10	0.52	0.45	16.89			
	4th Cross Road	2	47.90	0.52	0.45	22.42			
	4th Cross Road A	2	35.65	0.52	0.45	16.68			
	5th Cross Road	2	47.90	0.52	0.45	22.42			
	5th Cross Road A	2	34.20	0.52	0.40	14.23			
	6th Cross Road	2	49.25	0.52	0.45	23.05			
	7th Cross Road A	2	30.00	0.52	0.45	14.04			
	8th Cross Road	2	48.60	0.52	0.45	22.74			
	Poojamahalakshmi Layout								
	2nd Main Road	2	301.50	0.52	0.45	141.10			
	1st Cross Road	2	57.95	0.52	0.45	27.12			
	2nd Cross Road A	2	47.55	0.52	0.45	22.25			
	2nd Cross Road	2	50.25	0.52	0.45	23.52			
	3rd Cross Road	2	45.55	0.52	0.45	21.32			
	3rd Cross Road A	2	46.50	0.52	0.45	21.76			
	4th Cross Road	2	49.40	0.52	0.45	23.12			
	4th Cross Road A	2	46.50	0.52	0.45	21.76			
	5th Cross Road	2	47.45	0.52	0.45	22.21			
	5th Cross Road A	2	44.80	0.52	0.45	20.97			
	6th Cross Road	2	48.55	0.52	0.45	22.72			
	6th Cross Road A	2	44.80	0.52	0.45	20.97			
	7th Cross Road	2	49.15	0.52	0.45	23.00			
	8th Cross Road A	2	42.65	0.52	0.45	19.96			
	8th Cross Road	2	48.40	0.52	0.45	22.65			
	9th Cross Road A	2	41.55	0.52	0.45	19.45			
	9th Cross Road	2	45.70	0.52	0.45	21.39			
	10th Cross Road	2	47.25	0.52	0.45	22.11			
	10th Cross Road A	2	40.85	0.52	0.40	16.99			
	11th Cross Road A	2	39.95	0.52	0.50	20.77			
	11th Cross Road	2	48.80	0.52	0.45	22.84			
	1st Main Road	2	284.10	0.52	0.45	132.96			
	Balaji Layout								
	Balaji Layout Main Road	2	137.40	0.52	0.50	71.45			
	Cross Road 01	2	51.25	0.52	0.45	23.99			
	Cross Road 02	2	51.15	0.52	0.45	23.94			
	Cross Road 03	2	53.40	0.52	0.45	24.99			
	2nd Cross Road	2	235.30	0.52	0.45	110.07			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	3rd Cross Road	2	154.80	0.52	0.45	72.45			
	4th Cross Road	2	193.55	0.52	0.45	90.58			
	5th Cross Road	2	76.25	0.52	0.45	35.69			
	6th Cross Road	2	75.10	0.52	0.45	35.15			
	Dead End Connecting Drain	1	155.00	0.52	0.80	64.48			
	Culvert	60	6.50	2.00	1.10	858.00			
						2442.60	**Cum**	**225.78**	**551490.00**
3	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18,KPWD SR 2018-19)								
	Culvert	60	6.50	2.00	0.15	117.00			
	For Ramp								
	Culvert	120	6.50	0.90	0.10	69.31			
						186.31	**Cum**		
		Upto 125%				**118.13**	**Cum**	**5723.00**	**676029.00**
		Above 125%				**68.19**	**Cum**	**5723.00**	**390223.00**
4	KSRB 4-1.6 ; Providing and laying in **position plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.6,KPWD SR 2018-19)								
	PCC								
	Chamundi Layout			Avg	Avg				
	1st Cross Road	4	47.60	0.20	0.150	5.71			
	Main Rd	4	235.00	0.20	0.150	28.20			
	3rd Cross Road	4	39.30	0.20	0.150	4.72			
	3rd Cross Road A	4	30.00	0.20	0.150	3.60			
	4th Cross Road	4	45.50	0.20	0.150	5.46			
	4th Cross Road A	4	21.00	0.20	0.150	2.52			
	5th Cross Road	4	47.90	0.20	0.150	5.75			
	5th Cross Road A	4	22.50	0.20	0.150	2.70			
	6th Cross Road	4	39.70	0.20	0.150	4.76			
	7th Cross Road A	4	14.00	0.20	0.150	1.68			
	8th Cross Road	4	48.60	0.20	0.150	5.83			
	Poojamahalakshmi Layout								
	2nd Main Road	4	247.00	0.20	0.150	29.64			
	1st Cross Road	4	49.90	0.20	0.150	5.99			
	2nd Cross Road A	4	47.55	0.20	0.150	5.71			
	2nd Cross Road	4	33.00	0.20	0.150	3.96			
	3rd Cross Road	4	41.00	0.20	0.150	4.92			
	3rd Cross Road A	4	42.00	0.20	0.150	5.04			
	4th Cross Road	4	38.60	0.20	0.150	4.63			
	4th Cross Road A	4	33.00	0.20	0.150	3.96			
	5th Cross Road	4	40.00	0.20	0.150	4.80			
	5th Cross Road A	4	35.50	0.20	0.150	4.26			
	6th Cross Road	4	37.50	0.20	0.150	4.50			
	6th Cross Road A	4	35.60	0.20	0.150	4.27			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	7th Cross Road								
	8th Cross Road A	4	43.10	0.20	0.150	5.17			
	8th Cross Road	4	38.80	0.20	0.150	4.66			
	9th Cross Road A	4	44.00	0.20	0.150	5.28			
	9th Cross Road	4	41.55	0.20	0.150	4.99			
	10th Cross Road	4	43.00	0.20	0.150	5.16			
	10th Cross Road A	4	45.00	0.20	0.150	5.40			
	11th Cross Road A	4	40.85	0.20	0.150	4.90			
	11th Cross Road	4	39.95	0.20	0.150	4.79			
	1st Main Road	4	48.80	0.20	0.150	5.86			
	Balaji Layout	4	280.60	0.20	0.150	33.67			
	Balaji Layout Main Road								
	Cross Road 01	4	110.10	0.20	0.150	13.21			
	Cross Road 02	4	51.25	0.20	0.150	6.15			
	Cross Road 03	4	46.50	0.20	0.150	5.58			
	2nd Cross Road	4	47.00	0.20	0.150	5.64			
	3rd Cross Road	4	170.20	0.20	0.150	20.42			
	4th Cross Road	4	134.50	0.20	0.150	16.14			
	5th Cross Road	4	166.30	0.20	0.150	19.96			
	6th Cross Road	4	76.25	0.20	0.150	9.15			
	Coping	4	54.80	0.20	0.150	6.58			
	Chamundi Layout								
	1st Cross Road	4	47.60	0.15	0.075	2.14			
	Main Rd	4	235.00	0.15	0.075	10.58			
	3rd Cross Road	4	39.30	0.15	0.075	1.77			
	3rd Cross Road A	4	30.00	0.15	0.075	1.35			
	4th Cross Road	4	45.50	0.15	0.075	2.05			
	4th Cross Road A	4	21.00	0.15	0.075	0.95			
	5th Cross Road	4	47.90	0.15	0.075	2.16			
	5th Cross Road A	4	22.50	0.15	0.075	1.01			
	6th Cross Road	4	39.70	0.15	0.075	1.79			
	7th Cross Road A	4	14.00	0.15	0.075	0.63			
	8th Cross Road	4	48.60	0.15	0.075	2.19			
	Poojamahalakshmi Layout								
	2nd Main Road	4	247.00	0.15	0.075	11.12			
	1st Cross Road	4	49.90	0.15	0.075	2.25			
	2nd Cross Road A	4	47.55	0.15	0.075	2.14			
	2nd Cross Road	4	33.00	0.15	0.075	1.49			
	3rd Cross Road	4	41.00	0.15	0.075	1.85			
	3rd Cross Road A	4	42.00	0.15	0.075	1.89			
	4th Cross Road	4	38.60	0.15	0.075	1.74			
	4th Cross Road A	4	33.00	0.15	0.075	1.49			
	5th Cross Road	4	40.00	0.15	0.075	1.80			
	5th Cross Road A	4	35.50	0.15	0.075	1.60			
	6th Cross Road	4	37.50	0.15	0.075	1.69			
	6th Cross Road A	4	35.60	0.15	0.075	1.60			
	7th Cross Road	4	43.10	0.15	0.075	1.94			
	8th Cross Road A	4	38.80	0.15	0.075	1.75			
	8th Cross Road	4	44.00	0.15	0.075	1.98			
	9th Cross Road A	4	41.55	0.15	0.075	1.87			
	9th Cross Road	4	43.00	0.15	0.075	1.94			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	10th Cross Road	4	45.00	0.15	0.075	2.03			
	10th Cross Road A	4	40.85	0.15	0.075	1.84			
	11th Cross Road A	4	39.95	0.15	0.075	1.80			
	11th Cross Road	4	48.80	0.15	0.075	2.20			
	1st Main Road	4	280.60	0.15	0.075	12.63			
	Balaji Layout								
	Balaji Layout Main Road	4	110.10	0.15	0.075	4.95			
	Cross Road 01	4	51.25	0.15	0.075	2.31			
	Cross Road 02	4	46.50	0.15	0.075	2.09			
	Cross Road 03	4	47.00	0.15	0.075	2.12			
	2nd Cross Road	4	170.20	0.15	0.075	7.66			
	3rd Cross Road	4	134.50	0.15	0.075	6.05			
	4th Cross Road	4	166.30	0.15	0.075	7.48			
	5th Cross Road	4	76.25	0.15	0.075	3.43			
	6th Cross Road	4	54.80	0.15	0.075	2.47			
	Culvert								
	Vent Concrete	60	6.50	0.60	0.150	35.10			
	Coping	120	6.50	0.50	0.150	56.40			
	Ramp	120	6.50	0.90	0.100	67.20			
	For Kerb Stone								
	Chamundi Layout								
	1st Cross Road	2	47.60	0.20	0.10	1.90			
	Main Rd	2	231.95	0.20	0.10	9.28			
	Poojamahalakshmi Layout								
	2nd Main Road	2	252.70	0.20	0.10	10.11			
	1st Cross Road	2	49.85	0.20	0.10	1.99			
	2nd Cross Road A	2	47.55	0.20	0.10	1.90			
	2nd Cross Road	2	33.00	0.20	0.10	1.32			
	1st Main Road	2	280.65	0.20	0.10	11.23			
	Balaji Layout								
	Balaji Layout Main Road	2	137.40	0.20	0.10	5.50			
	Cross Road 01	2	51.25	0.20	0.10	2.05			
						665.04	Cum	6023.70	4005986.00
5	KSRB 5-14: Providing and constructing **load bearing wall** with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. - do - with solid concrete blocks of size 400x150x200mm(I No-5.26.2,P No-27,KPWD SR 2018-19)								
	Flagging Course								
	Chamundi Layout								
	1st Cross Road	4	47.60		0.46	87.58			
	Main Rd	4	235.00		0.46	432.40			
	3rd Cross Road	4	39.30		0.46	72.31			
	3rd Cross Road A	4	30.00		0.46	55.20			
	4th Cross Road	4	45.50		0.46	83.72			
	4th Cross Road A	4	21.00		0.46	38.64			
	5th Cross Road	4	47.90		0.46	88.14			
	5th Cross Road A	4	22.50		0.46	41.40			
	6th Cross Road	4	39.70		0.46	73.05			
	7th Cross Road A	4	14.00		0.23	12.88			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	8th Cross Road	4	48.60		0.46	89.42			
	Poojamahalakshmi Layout								
	2nd Main Road	4	247.00		0.46	454.48			
	1st Cross Road	4	49.90		0.46	91.82			
	2nd Cross Road A	4	47.55		0.46	87.49			
	2nd Cross Road	4	33.00		0.46	60.72			
	3rd Cross Road	4	41.00		0.46	75.44			
	3rd Cross Road A	4	42.00		0.46	77.28			
	4th Cross Road	4	38.60		0.46	71.02			
	4th Cross Road A	4	33.00		0.46	60.72			
	5th Cross Road	4	40.00		0.46	73.60			
	5th Cross Road A	4	35.50		0.46	65.32			
	6th Cross Road	4	37.50		0.46	69.00			
	6th Cross Road A	4	35.60		0.46	65.50			
	7th Cross Road	4	43.10		0.46	79.30			
	8th Cross Road A	4	38.80		0.46	71.39			
	8th Cross Road	4	44.00		0.23	40.48			
	9th Cross Road A	4	41.55		0.23	38.37			
	9th Cross Road	4	43.00		0.46	79.12			
	10th Cross Road	4	45.00		0.46	82.80			
	10th Cross Road A	4	40.85		0.46	75.16			
	11th Cross Road A	4	39.95		0.46	73.51			
	11th Cross Road	4	48.80		0.23	44.90			
	1st Main Road	4	280.60		0.46	516.30			
	Balaji Layout								
	Balaji Layout Main Road	4	110.10		0.46	202.58			
	Cross Road 01	4	51.25		0.23	47.15			
	Cross Road 02	4	46.50		0.23	42.78			
	Cross Road 03	4	47.00		0.46	86.48			
	2nd Cross Road	4	170.20		0.46	313.17			
	3rd Cross Road	4	134.50		0.46	247.48			
	4th Cross Road	4	166.30		0.46	305.99			
	5th Cross Road	4	76.25		0.23	70.15			
	6th Cross Road	4	54.80		0.23	50.42			
						4794.68	**Sqm**	**1028.20**	**4929888.00**
6	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Flagging Course								
	Chamundi Layout								
	1st Cross Road	2	47.60	0.90		85.68			
	Main Rd	2	233.90	0.90		421.02			
	3rd Cross Road	2	39.30	0.90		70.74			
	3rd Cross Road A	2	23.90	0.90		43.02			
	4th Cross Road	2	45.50	0.90		81.90			
	4th Cross Road A	2	21.00	0.90		37.80			
	5th Cross Road	2	43.20	0.90		77.76			
	5th Cross Road A	2	22.50	0.90		40.50			
	6th Cross Road	2	25.50	0.90		45.90			
	7th Cross Road A	2	14.00	0.90		25.20			
	8th Cross Road	2	48.60	0.90		87.48			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Poojamahalakshmi Layout								
	2nd Main Road	2	233.50	0.90		420.30			
	1st Cross Road	2	49.90	0.90		89.82			
	2nd Cross Road A	2	47.60	0.90		85.68			
	2nd Cross Road	2	33.00	0.90		59.40			
	3rd Cross Road	2	41.00	0.90		73.80			
	3rd Cross Road A	2	38.90	0.90		70.02			
	4th Cross Road	2	40.80	0.90		73.44			
	4th Cross Road A	2	32.80	0.90		59.04			
	5th Cross Road	2	35.80	0.90		64.44			
	5th Cross Road A	2	35.60	0.90		64.08			
	6th Cross Road	2	35.50	0.90		63.90			
	6th Cross Road A	2	35.80	0.90		64.44			
	7th Cross Road	2	43.10	0.90		77.58			
	8th Cross Road A	2	39.80	0.90		71.64			
	8th Cross Road	2	44.00	0.90		79.20			
	9th Cross Road A	2	41.60	0.90		74.88			
	9th Cross Road	2	40.80	0.90		73.44			
	10th Cross Road	2	45.00	0.90		81.00			
	10th Cross Road A	2	40.90	0.90		73.62			
	11th Cross Road A	2	40.00	0.90		72.00			
	11th Cross Road	2	43.80	0.90		78.84			
	1st Main Road	2	286.20	0.90		515.16			
	Balaji Layout								
	Balaji Layout Main Road	2	110.00	0.90		198.00			
	Cross Road 01	2	45.00	0.90		81.00			
	Cross Road 02	2	43.00	0.90		77.40			
	Cross Road 03	2	47.00	0.90		84.60			
	2nd Cross Road	2	170.00	0.90		306.00			
	3rd Cross Road	2	124.20	0.90		223.56			
	4th Cross Road	2	147.00	0.90		264.60			
	5th Cross Road	2	71.00	0.90		127.80			
	6th Cross Road	2	53.00	0.90		95.40			
						4861.08	**Sqm**	**2444.40**	**11882424.00**
7	KSRB 5.2 : Providing and constructing **granite / trap / basalt size stone masonry** in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 cement mortar 1:6 KBS 5.1.13 (I No-5.6,P No-25,KPWD SR 2018-19)								
	Culvert								
		120	6.47	0.60	0.40	186.34			
		120	6.47	0.45	0.40	139.75			
						326.09	**Cum**	**5141.00**	**1676418.00**
8	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge ,KPWD SR 2018-19								
	Culvert Raft	60	6.47	1.50		582.30			
						582.30	**Sqm**	**5723.00**	**3332503.00**

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
9	Providing and fixing pre cast solid cement **concrete kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (I No-5.30,P No-27,KPWD SR 2018-19)								
	For Kerb Stone								
	Chamundi Layout								
	1st Cross Road	2	47.60			95.20			
	Main Rd	2	231.95			463.90			
	Poojamahalakshmi Layout								
	2nd Main Road	2	252.70			505.40			
	1st Cross Road	2	49.85			99.70			
	2nd Cross Road A	2	47.55			95.10			
	2nd Cross Road	2	33.00			66.00			
	1st Main Road	2	280.65			561.30			
	Balaji Layout								
	Balaji Layout Main Road	2	137.40			274.80			
	Cross Road 01	2	51.25			102.50			
						2263.90			
						5031.00	**Nos**	**455.90**	**2293633.00**
10	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (I No-24.1,P No-180,KPWD SR 2018-19)								
	For Kerb Stone								
	Chamundi Layout								
	1st Cross Road	2	47.60		0.40	38.08			
	Main Rd	2	231.95		0.40	185.56			
	Poojamahalakshmi Layout								
	2nd Main Road	2	252.70		0.40	202.16			
	1st Cross Road	2	49.85		0.40	39.88			
	2nd Cross Road A	2	47.55		0.40	38.04			
	2nd Cross Road	2	33.00		0.40	26.40			
	1st Main Road	2	280.65		0.40	224.52			
	Balaji Layout								
	Balaji Layout Main Road	2	137.40		0.40	109.92			
	Cross Road 01	2	51.25		0.40	41.00			
						905.56	**Sqm**	**89.24**	**80,812.00**
11	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143,KPWD SR 2018-19)								
	Chamundi Layout								
	3rd Cross Road	1	48.00	6.60	0.30	95.04			
	3rd Cross Road A	1	36.50	6.70	0.30	73.37			
	4th Cross Road	1	48.10	6.50	0.30	93.80			
	4th Cross Road A	1	34.50	6.50	0.30	67.28			
	5th Cross Road	1	48.20	6.90	0.30	99.77			
	5th Cross Road A	1	33.60	6.15	0.30	61.99			
	6th Cross Road	1	47.60	6.20	0.30	88.54			
	7th Cross Road A	1	28.80	6.25	0.30	54.00			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	8th Cross Road	1	48.40	6.70	0.30	97.28			
	Poojamahalakshmi Layout								
	3rd Cross Road	1	48.60	5.60	0.30	81.65			
	4th Cross Road	1	48.40	5.50	0.30	79.86			
	5th Cross Road	1	49.20	5.70	0.30	84.13			
	7th Cross Road	1	47.60	6.20	0.30	88.54			
	9th Cross Road A	1	41.10	5.30	0.30	65.35			
	9th Cross Road	1	39.80	5.70	0.30	68.06			
	10th Cross Road	1	48.00	5.30	0.30	76.32			
	10th Cross Road A	1	39.90	4.60	0.30	55.06			
	11th Cross Road	1	48.60	4.20	0.30	61.24			
	Balaji Layout								
	Cross Road 03	1	53.50	5.80	0.30	93.09			
	Krishnanagara								
	2nd Main Road	1	118.00	5.90	0.30	208.86			
	3rd Cross Road	1	161.20	6.70	0.30	324.01			
	4th Cross Road	1	206.40	5.15	0.30	318.89			
	5th Cross Road	1	75.80	5.50	0.30	125.07			
	6th Cross Road	1	79.50	5.00	0.30	119.25			
	Ayyappa Layout								
	Main Rd	1	198.40	4.80	0.30	285.70			
						2866.13	Cum		
		Upto 125%				2224.69	Cum	66.86	148743.00
		Above 125%				641.44	Cum	66.86	42,887.00
12	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147,KPWD SR 2018-19)								
	Chamundi Layout								
	3rd Cross Road	1	48.00	6.60		316.80			
	3rd Cross Road A	1	36.50	6.70		244.55			
	4th Cross Road	1	48.10	6.50		312.65			
	4th Cross Road A	1	34.50	6.50		224.25			
	5th Cross Road	1	48.20	6.90		332.58			
	5th Cross Road A	1	33.60	6.15		206.64			
	6th Cross Road	1	47.60	6.20		295.12			
	7th Cross Road A	1	28.80	6.25		180.00			
	8th Cross Road	1	48.40	6.70		324.28			
	Poojamahalakshmi Layout								
	3rd Cross Road	1	48.60	5.60		272.16			
	4th Cross Road	1	48.40	5.50		266.20			
	5th Cross Road	1	49.20	5.70		280.44			
	7th Cross Road	1	47.60	6.20		295.12			
	9th Cross Road A	1	41.10	5.30		217.83			
	9th Cross Road	1	39.80	5.70		226.86			
	10th Cross Road	1	48.00	5.30		254.40			
	10th Cross Road A	1	39.90	4.60		183.54			
	11th Cross Road	1	48.60	4.20		204.12			
	Balaji Layout								
	Cross Road 03	1	53.50	5.80		310.30			
	Krishnanagara								
	2nd Main Road	1	118.00	5.90		692.60			

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	3rd Cross Road	1	161.20	6.70		1080.04			
	4th Cross Road	1	206.40	5.15		1062.96			
	5th Cross Road	1	75.80	5.50		416.90			
	6th Cross Road	1	79.50	5.00		397.50			
	Ayyappa Layout								
	Main Rd	1	198.40	4.80		952.32			
						9550.16	Sqm		
		Upto 125%				7415.63	Sqm	6.69	49,611.00
		Above 125%				2134.54	Sqm	6.69	14,280.00
13	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.(I No-20.5,P No-153,KPWD SR 2018-19)								
	Chamundi Layout								
	3rd Cross Road	1	48.00	6.60	0.15	47.52			
	3rd Cross Road A	1	36.50	6.70	0.15	36.68			
	4th Cross Road	1	48.10	6.50	0.15	46.90			
	4th Cross Road A	1	34.50	6.50	0.15	33.64			
	5th Cross Road	1	48.20	6.90	0.15	49.89			
	5th Cross Road A	1	33.60	6.15	0.15	31.00			
	6th Cross Road	1	47.60	6.20	0.15	44.27			
	7th Cross Road A	1	28.80	6.25	0.15	27.00			
	8th Cross Road	1	48.40	6.70	0.15	48.64			
	Poojamahalakshmi Layout								
	3rd Cross Road	1	48.60	5.60	0.15	40.82			
	4th Cross Road	1	48.40	5.50	0.15	39.93			
	5th Cross Road	1	49.20	5.70	0.15	42.07			
	7th Cross Road	1	47.60	6.20	0.15	44.27			
	9th Cross Road A	1	41.10	5.30	0.15	32.67			
	9th Cross Road	1	39.80	5.70	0.15	34.03			
	10th Cross Road	1	48.00	5.30	0.10	25.44			
	10th Cross Road A	1	39.90	4.60	0.10	18.35			
	11th Cross Road	1	48.60	4.20	0.10	20.41			
	Balaji Layout								
	Cross Road 03	1	53.50	5.80	0.10	31.03			
	Krishnanagara								
	2nd Main Road	1	118.00	5.90	0.15	103.73			
	3rd Cross Road	1	161.20	6.70	0.15	162.01			
	4th Cross Road	1	206.40	5.15	0.15	159.44			
	5th Cross Road	1	75.80	5.50	0.10	41.69			
	6th Cross Road	1	79.50	5.00	0.10	39.75			
	Ayyappa Layout								
	Main Rd	1	198.40	4.80	0.10	95.23			
						1296.41	Cum		
		Upto 125%				1112.34	Cum	2131.80	2371281.00
		Above 125%				184.07	Cum	2131.80	392406.00

Scanned by TapScanner

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
14	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18,KPWD SR 2018-19)								
	Chamundi Layout								
	3rd Cross Road	1	48.00	6.60	0.225	71.28			
	3rd Cross Road A	1	36.50	6.70	0.225	55.02			
	4th Cross Road	1	48.10	6.50	0.225	70.35			
	4th Cross Road A	1	34.50	6.50	0.225	50.46			
	5th Cross Road	1	48.20	6.90	0.225	74.83			
	5th Cross Road A	1	33.60	6.15	0.225	46.49			
	6th Cross Road	1	47.60	6.20	0.225	66.40			
	7th Cross Road A	1	28.80	6.25	0.225	40.50			
	8th Cross Road	1	48.40	6.70	0.225	72.96			
	Poojamahalakshmi Layout								
	3rd Cross Road	1	48.60	5.60	0.225	61.24			
	4th Cross Road	1	48.40	5.50	0.225	59.90			
	5th Cross Road	1	49.20	5.70	0.225	63.10			
	7th Cross Road	1	47.60	6.20	0.225	66.40			
	9th Cross Road A	1	41.10	5.30	0.225	49.01			
	9th Cross Road	1	39.80	5.70	0.225	51.04			
	10th Cross Road	1	48.00	5.30	0.225	57.24			
	10th Cross Road A	1	39.90	4.60	0.225	41.30			
	11th Cross Road	1	48.60	4.20	0.225	45.93			
	Balaji Layout								
	Cross Road 03	1	53.50	5.80	0.225	69.82			
	Krishnanagara								
	2nd Main Road	1	118.00	5.90	0.225	156.65			
	3rd Cross Road	1	161.20	6.70	0.225	242.01			
	4th Cross Road	1	206.40	5.15	0.225	239.17			
	5th Cross Road	1	75.80	5.50	0.225	93.80			
	6th Cross Road	1	79.50	5.00	0.225	89.44			
	Ayyappa Layout								
	Main Rd	1	198.40	4.80	0.225	214.27			
						2148.60	**Cum**		
		Upto 125%				**1668.51**	**Cum**	**2097.89**	**3500356.00**
		Above 125%				**480.08**	**Cum**	**2097.89**	**1007164.00**
15	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6,KPWD SR 2018-19)issue rate Dated -01-07-2020								
	Chamundi Layout								
	3rd Cross Road	1	48.00	6.00		288.00			
	3rd Cross Road A	1	36.50	6.15		224.48			
	4th Cross Road	1	48.10	5.70		274.17			
	4th Cross Road A	1	34.50	6.00		207.00			
	5th Cross Road	1	48.20	6.05		291.61			
	5th Cross Road A	1	33.60	5.60		188.16			
	6th Cross Road	1	47.60	5.65		268.94			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	7th Cross Road A	1	28.80	5.85		168.48			
	8th Cross Road	1	48.40	6.05		292.82			
	Poojamahalakshmi Layout								
	3rd Cross Road	1	48.60	5.60		272.16			
	4th Cross Road	1	48.40	5.50		266.20			
	5th Cross Road	1	49.20	5.65		277.98			
	7th Cross Road	1	47.60	5.60		266.56			
	9th Cross Road A	1	41.10	5.30		217.83			
	9th Cross Road	1	39.80	5.70		226.98			
	10th Cross Road	1	48.00	5.30		254.40			
	10th Cross Road A	1	39.90	4.65		185.54			
	11th Cross Road	1	48.60	4.20		204.12			
	Balaji Layout								
	Cross Road 03	1	53.50	5.80		310.30			
	Krishnanagara								
	2nd Main Road	1	118.00	5.90		696.20			
	3rd Cross Road	1	161.20	6.10		983.32			
	4th Cross Road	1	206.40	5.15		1062.96			
	Ayyappa Layout								
	Main Rd	1	198.40	4.80		952.32			
						8380.52			
		Upto 125%				**7415.63**	**Sqm**	**31.01**	**229959.00**
		Above 125%				**964.90**	**Sqm**	**31.01**	**29,921.00**
16	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7,KPWD SR 2018-19)Issue rate Dated -01-07-2020								
	Chamundi Layout								
	3rd Cross Road	1	48.00	6.00		288.00			
	3rd Cross Road A	1	36.50	6.15		224.48			
	4th Cross Road	1	48.10	5.70		274.17			
	4th Cross Road A	1	34.50	6.00		207.00			
	5th Cross Road	1	48.20	6.05		291.61			
	5th Cross Road A	1	33.60	5.60		188.16			
	6th Cross Road	1	47.60	5.65		268.94			
	7th Cross Road A	1	28.80	5.85		168.48			
	8th Cross Road	1	48.40	6.05		292.82			
	Poojamahalakshmi Layout								
	3rd Cross Road	1	48.60	5.60		272.16			
	4th Cross Road	1	48.40	5.50		266.20			
	5th Cross Road	1	49.20	5.65		277.98			
	7th Cross Road	1	47.60	5.60		266.56			
	9th Cross Road A	1	41.10	5.30		217.83			
	9th Cross Road	1	39.80	5.70		226.98			
	10th Cross Road	1	48.00	5.30		254.40			
	10th Cross Road A	1	39.90	4.65		185.54			
	11th Cross Road	1	48.60	4.20		204.12			
	Balaji Layout								
	Cross Road 03	1	53.50	5.80		310.30			
	Krishnanagara								
	2nd Main Road	1	118.00	5.90		696.20			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	3rd Cross Road								
	th Cross Road	1	161.20	6.10		983.32			
	Ayyappa Layout	1	206.40	5.15		1062.96			
	Main Rd								
	Approaches	1	198.40	4.80		952.32			
		1	144.20	1.90		273.98			
						8654.50	**Sqm**		
		Upto 125%				**7415.63**	**Sqm**	**12.60**	**93,437.00**
		Above 125%				**1238.88**	**Sqm**	**12.60**	**15,610.00**
17	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6,KPWD SR 2018-19) Issue rate Dated -01-07-2020								
	Chamundi Layout								
	3rd Cross Road	1	48.00	6.00	0.05	14.40			
	3rd Cross Road A	1	36.50	6.15	0.05	11.22			
	4th Cross Road	1	48.10	5.70	0.05	13.71			
	4th Cross Road A	1	34.50	6.00	0.05	10.35			
	5th Cross Road	1	48.20	6.05	0.05	14.58			
	5th Cross Road A	1	33.60	5.60	0.05	9.41			
	6th Cross Road	1	47.60	5.65	0.05	13.45			
	7th Cross Road A	1	28.80	5.85	0.05	8.42			
	8th Cross Road	1	48.40	6.05	0.05	14.64			
	Poojamahalakshmi Layout								
	3rd Cross Road	1	48.60	5.60	0.05	13.61			
	4th Cross Road	1	48.40	5.50	0.05	13.31			
	5th Cross Road	1	49.20	5.65	0.05	13.90			
	7th Cross Road	1	47.60	5.60	0.05	13.33			
	9th Cross Road A	1	41.10	5.30	0.05	10.70			
	9th Cross Road	1	39.80	5.70	0.05	11.35			
	10th Cross Road	1	48.00	5.30	0.05	12.72			
	10th Cross Road A	1	39.90	4.65	0.05	9.28			
	11th Cross Road	1	48.60	4.20	0.05	10.21			
	Balaji Layout								
	Cross Road 03	1	53.50	5.80	0.05	15.52			
	Krishnanagara								
	2nd Main Road	1	118.00	5.90	0.05	34.81			
	3rd Cross Road	1	161.20	6.10	0.05	49.17			
	4th Cross Road	1	206.40	5.15	0.05	53.15			
	Ayyappa Layout								
	Main Rd	1	198.40	4.80	0.05	47.62			
						418.84	**Cum**		
		Upto 125%				**370.78**	**Cum**	**6705.48**	**2486224.00**
		Above 125%				**48.06**	**Cum**	**6705.48**	**322267.00**

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No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
18	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No-171,I No-21.78.12,KPWD SR 2018-19) Issue rate Dated -01-07-2020.								
	Chamundi Layout								
	3rd Cross Road	1	48.00	6.00	0.04	11.52			
	3rd Cross Road A	1	36.50	6.15	0.04	8.98			
	4th Cross Road	1	48.10	5.70	0.04	10.97			
	4th Cross Road A	1	34.50	6.00	0.04	8.28			
	5th Cross Road	1	48.20	6.05	0.04	11.66			
	5th Cross Road A	1	33.60	5.60	0.04	7.53			
	6th Cross Road	1	47.60	5.65	0.04	10.76			
	7th Cross Road A	1	28.80	5.85	0.04	6.74			
	8th Cross Road	1	48.40	6.05	0.04	11.71			
	Poojamahalakshmi Layout								
	3rd Cross Road	1	48.60	5.60	0.04	10.89			
	4th Cross Road	1	48.40	5.50	0.04	10.65			
	5th Cross Road	1	49.20	5.65	0.04	11.12			
	7th Cross Road	1	47.60	5.60	0.04	10.66			
	9th Cross Road A	1	41.10	5.30	0.04	8.71			
	9th Cross Road	1	39.80	5.70	0.04	9.08			
	10th Cross Road	1	48.00	5.30	0.04	10.18			
	10th Cross Road A	1	39.90	4.65	0.04	7.42			
	11th Cross Road	1	48.60	4.20	0.04	8.16			
	Balaji Layout								
	Cross Road 03	1	53.50	5.80	0.04	12.41			
	Krishnanagara								
	2nd Main Road	1	118.00	5.90	0.04	27.85			
	3rd Cross Road	1	161.20	6.10	0.04	39.33			
	4th Cross Road	1	206.40	5.15	0.04	42.52			
	Ayyappa Layout								
	Main Rd	1	198.40	4.80	0.04	38.09			
	Approaches								
		1	144.20	1.90	0.04	10.96			
						346.18	**Cum**		
		Upto 125%				**296.63**	**Cum**	**7887.66**	**2339677.00**
		Above 125%				**49.55**	**Cum**	**7887.66**	**390871.00**
19	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15,KPWD SR 2018-19)								
	Chamundi Layout								
	3rd Cross Road	2	48.00	0.10		9.60			
	3rd Cross Road A	2	36.50	0.10		7.30			
	4th Cross Road	2	48.10	0.10		9.62			

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
4th Cross Road A	2	34.50	0.10		6.90			
5th Cross Road	2	48.20	0.10		9.64			
5th Cross Road A	2	33.60	0.10		6.72			
6th Cross Road	2	47.60	0.10		9.52			
7th Cross Road A	2	28.80	0.10		5.76			
8th Cross Road	2	48.40	0.10		9.68			
Poojamahalakshmi Layout								
3rd Cross Road	2	48.60	0.10		9.72			
4th Cross Road	2	48.40	0.10		9.68			
5th Cross Road	2	49.20	0.10		9.84			
7th Cross Road	2	47.60	0.10		9.52			
9th Cross Road A	2	41.10	0.10		8.22			
9th Cross Road	2	39.80	0.10		7.96			
10th Cross Road	2	48.00	0.10		9.60			
10th Cross Road A	2	39.90	0.10		7.98			
11th Cross Road	2	48.60	0.10		9.72			
Balaji Layout								
Cross Road 03	2	53.50	0.10		10.70			
Krishnanagara								
2nd Main Road	2	118.00	0.10		23.60			
3rd Cross Road	2	161.20	0.10		32.24			
4th Cross Road	2	206.40	0.10		41.28			
Ayyappa Layout								
Main Rd	2	198.40	0.10		39.68			
					304.48	Sqm		
	Upto 125%				293.75	Sqm	474.81	139475.00
	Above 125%				10.73	Sqm	474.81	5,095.00
							Total Construction Cost	43921628.00

Assistant Engineer
Ward No-05
BBMP Bangalore

Asst. Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Technical Sanction
Accorded For Rs 43921628.00
Head of A/C. P.3801....
CER NO :...55..... Dt:22.05.2021

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